

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,816	11/24/2003	Thomas W. Stone	10010937-1	5361
AGILENT TECHNOLOGIES, INC. Legal Department, DL 429 Intellectual Property Administration P.O. Box 7599 Loveland, CO 80537-0599			EXAMINER	
			CHIEM, DINH D	
			ART UNIT	PAPER NUMBER
			2883 DATE MAILED: 05/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	A1:4/-)				
	Application No.	Applicant(s)				
Office Action Commons	10/720,816	STONE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Erin D. Chiem	2883				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>07 Fe</u>	ebruary 2005.					
,						
- /	·—					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
4a) Of the above claim(s) <u>11</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.	· <u> </u>					
8) Claim(s) are subject to restriction and/o	r election requirement.	·				
Application Papers		•				
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

DETAILED ACTION

This office action is in response to the amendment filed on February 7, 2005. Currently claims 1-10 are pending and claim 11 is withdrawn. Applicant amended claims 1, 2, 5, 7-10.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu et al. (US 6,166,838). Liu et al. disclose an add/drop wavelength switch comprising a polarization separating sub-system (Fig. 3a; 200, 201); at least one switchable diffraction grating (301_2) and having means to modify the switching speeds ranging from milliseconds to nanoseconds (col. 4, line 42-47); and a polarization recombining sub-system (202, 203). By tracing through the input signals 700 or 701 through the polarization separating system through the diffraction switches and recombine by 202 and 203 and outputting at least one final output beam constituting a set of output beams. The static grating (400; col. 2,line 30 -32), stacked waveplates exists transparent regions, disposed between the switchable diffraction and polarization recombining sub-system; and the switchable diffraction grating comprises one switchable volume diffraction grating (302_1, 302_2). The controlling mean disclosed by Liu is a bit-controlling mean (Abstract). The static grating 400 is disposed between the polarization separating sub-system (201) and a switchable diffraction grating (301_1, 301_2). The set of switchable diffraction gratings comprise two switchable volume diffraction gratings (303_1, 303_2) disposed between

Art Unit: 2883

polarization sub-system (200) and a second of the two switchable volume diffraction gratings (302_1, 302_2). The second of the two switchable volume diffraction gratings are disposed between the first of the two switchable volume diffraction gratings (303_1, 303_2) and the polarization recombining sub-system (203). There are two output beam ports (362, 401) capable of receiving from polarization recombining sub-system one final output beam from said two final output beams (372).

Response to Arguments

5. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Application/Control Number: 10/720,816

Art Unit: 2883

Page 4

however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erin D. Chiem whose telephone number is (571) 272-3102. The examiner can normally be reached on Monday - Thursday 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Erin D Chiem Examiner Art Unit 2883

Supervisory Primary Examiner
Technology Center 2800